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| APPLICATION NO.                                  | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|--------------------------------------------------|-------------|----------------------|---------------------|------------------|
| 10/580,036                                       | 05/19/2006  | Yasuo Kobayashi      | 291327US26PCT       | 9532             |
| 22850                                            | 7590        | 04/30/2009           | EXAMINER            |                  |
| OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, P.C. |             |                      | LOUIE, MANDY C      |                  |
| 1940 DUKE STREET                                 |             |                      |                     |                  |
| ALEXANDRIA, VA 22314                             |             |                      | ART UNIT            | PAPER NUMBER     |
|                                                  |             |                      | 1792                |                  |
|                                                  |             |                      | NOTIFICATION DATE   | DELIVERY MODE    |
|                                                  |             |                      | 04/30/2009          | ELECTRONIC       |

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patentdocket@oblon.com  
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|                              |                                      |                                         |
|------------------------------|--------------------------------------|-----------------------------------------|
| <b>Office Action Summary</b> | <b>Application No.</b><br>10/580,036 | <b>Applicant(s)</b><br>KOBAYASHI ET AL. |
|                              | <b>Examiner</b><br>MANDY C. LOUIE    | <b>Art Unit</b><br>1792                 |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED. (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on 19 May 2006.
- 2a) This action is FINAL.      2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 1-7 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) Claim(s) \_\_\_\_\_ is/are allowed.
- 6) Claim(s) \_\_\_\_\_ is/are rejected.
- 7) Claim(s) \_\_\_\_\_ is/are objected to.
- 8) Claim(s) 1-7 are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All    b) Some \* c) None of:  
 1. Certified copies of the priority documents have been received.  
 2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- 1) Notice of References Cited (PTO-892)  
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  
 3) Information Disclosure Statement(s) (PTO/SB/08)  
 Paper No(s)/Mail Date \_\_\_\_\_
- 4) Interview Summary (PTO-413)  
 Paper No(s)/Mail Date \_\_\_\_\_
- 5) Notice of Informal Patent Application  
 6) Other: \_\_\_\_\_

**DETAILED ACTION**

1. A telephone call was made to Steven Weihrouch on 03/02/09 to request an oral election to the below election/restriction requirement, but did not result in an election being made.

***PCT: Lack of Unity***

***Election/Restrictions***

2. Restriction to one of the following inventions is required under 35 U.S.C. 121:
  - I. Claims 1-6, drawn to plasma processing method for forming a film on a substrate, classified in class 427, subclass 457.
  - II. Claim 7, drawn to a plasma processing apparatus for forming a film, classified in class 118, subclass 620.

***Posteriori***

3. Lack of unity of invention may become apparent under "a posteriori," that is, after taking the prior art into consideration: the independent claims appears to be drawn to A + X and A + Y, and the unity of invention (i.e. species) presents "a posteriori" as A being common to both claims, where the prior art teaches A.

The inventions listed as Groups I-II do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: the special technical feature which is referred to Annex B of Appendix A1 of the MPEP (Administrative

Instructions under the PCT: "Unity of Invention"). The express "special technical features" is defined as meaning those technical features that define a contribution which each of the inventions, considered as a whole, makes over the prior art."(Rule 13.2). Unity exists only when there is a technical relationship among the claimed inventions involving one or more of the same or corresponding claimed special technical features. In this case, the technical feature shared by each invention is a plasma processing apparatus comprising a processing chamber with a mounting table provided therein; a disc-shaped planar antenna member disposed at an upper portion of the processing chamber facing the table; a plurality of slots for radiating a microwave; a dielectric plate disposed under the planar antenna member; and a conductive gas supply member disposed between the dielectric plate and the table.

The question of unity of invention has been reconsidered retroactively by the examiner in view of the search performed; a review of US 2003/0178144 (Ohmi et al.), makes clear that the inventions of the groups I-II lack the same or corresponding special technical feature because the cited reference(s) appear to demonstrate that the claimed technical feature does not define a contribution which each of the inventions, considered as a whole, makes over the prior art. Ohmi teaches a plasma processing apparatus [abstract] comprising a processing chamber with a stage (mounting table) therein (115), a flat disk-like antenna body (110B) disposed at an upper portion of the processing chamber facing the stage, where the antenna body is a radial line slot antenna (plurality of slots), a dielectric cover plate (102), and a plasma (conductive) gas supply passage (106) disposed between the dielectric plate and table [Fig. 1A-B].

Accordingly, the prior art of the record supports restriction of the claimed subject matter in to the groups as mentioned immediately above.

***Conclusion***

1. No claim is allowed.
2. All the pending claims are subject to restriction/election requirement.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MANDY C. LOUIE whose telephone number is (571)270-5353. The examiner can normally be reached on Monday to Friday, 7:30AM - 5:00PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy Meeks can be reached on (571)272-1423. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/M. C. L./  
Examiner, Art Unit 1792

/Timothy H Meeks/  
Supervisory Patent Examiner, Art Unit 1792